(previously presented), or (not entered).

The text of all pending claims, (including withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (canceled), (withdrawn), (new),

Applicants reserve the right to pursue any canceled claims at a later date.

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method of providing bandwidth on demand in a broadband communications system, comprising:

establishing a default connection between a subscriber data processing system and a content-provider data processing system, said default connection comprising an asynchronous transfer mode (ATM) permanent virtual circuit (PVC);

initiating a bandwidth-on-demand session via said subscriber, by creatingsaid bandwidth-on-demand session creates one or more switched virtual circuits (SVCs) between said subscriber data processing system and said content-provider data processing system to supplement the bandwidth of said default connection; and

ending said bandwidth-on-demand session by terminating said one or more SVCs.

2. (original) The method of claim 1 wherein said step of initiating a bandwidth-ondemand session comprises sending a message from said subscriber data processing system to a proxy signaling server comprising information related to said bandwidth-on-demand session and, in response to said message, sending a message from said proxy signaling server to an ATM Serial No. 10/672,771

Atty. Doc. No. 2003P04918US01

edge device to create one or more SVCs between said subscriber data processing system and said

content-provider data processing system.

3. (original) The method of claim 2 wherein said information comprises data for

authenticating said subscriber.

4. (original) The method of claim 2 wherein said message from said proxy signaling

server comprises User Network Interface (UNI) signals.

5. (original) The method of claim 2 wherein said step of ending said bandwidth-on-

demand session comprises sending a message from said subscriber data processing system to a

proxy signaling server comprising an instruction to end said bandwidth-on-demand session and,

in response to said message, sending a message from said proxy signaling server to an ATM

edge device to terminate said one or more SVCs between said subscriber data processing system

and said content-provider data processing system.

6. (original) The method of claim 2 wherein said ATM edge device comprises an ATM

switch.

(currently amended) The method of claim 6 wherein said step of initiating a

bandwidth-on-demand session comprises a said subscriber using a client-side application on said

subscriber data processing system to request said bandwidth-on-demand session.

| Serial No. 10/672,771<br>Atty. Doc. No. 2003P04918US01                                 |
|--|
| 8. (canceled)  |
| 9. (canceled)  |
| 10. (currently amended) A broadband communication system for providing bandwidth-      |
| on-demand, comprising:   |
| a subscriber data-processing system for providing a subscriber with access to said     |
| communication system;  |
| a digital subscriber line (DSL) modem for modulating and demodulating data for         |
| transmission over a local loop telephone line to a DSL multiplexer (DSLAM);            |
| an asynchronous transfer mode (ATM) edge device in communication with said DSLAM       |
| for receiving data from and transmitting data over an ATM network;                     |
| a proxy signaling server in communication with said subscriber data processing system; |
| a content-provider data processing system in communication with said ATM network for   |
| providing broadband content to a subscriber;   |
| a client-side application on said subscriber data processing system for use by said    |
| subscriber-to:   |
| to login to said proxy signaling server.   |
| to receive service advertising information due to said login.                          |
| to request a bandwidth-on-demand session after said receive, and                       |
| for transmitting information to said proxy signaling server in response to said        |
| request; and   |

a connection-management application on said proxy signaling server for:

providing service advertising information to said client-side application due to said login, and

\_\_\_\_\_receiving said information and for signaling to said ATM edge device on behalf of said CPE to establish one or more switched virtual circuits (SVCs) from said CPE to said content-provider data processing system.

- 11. (original) The system of claim 10 wherein said digital subscriber line (DSL) modem is supports bridge mode.
- 12. (original) The system of claim 11 wherein said proxy signaling server uses User Network Interface (UNI) signaling to signal said ATM switch on behalf of said CPE.
- 13. (original) The system of claim 12 wherein said client-side application comprises a web browser plug-in.
- 14. (original) The system of claim 12 wherein said client-side application comprises a dialer application.
- 15. (original) The system of claim 12 wherein said ATM edge device comprises an ATM switch.
  - 16. (currently amended) A communications system, comprising:

a subscriber data processing system for use by a subscriber to transmit and receive data to and from a remote content-provider data processing system;

client premise equipment (CPE) in communication with said subscriber data processing system for transmitting and receiving said data over a local loop to a DSL multiplexer (DSLAM);

an asynchronous transfer mode (ATM) edge device in communication with said DSLAM for transmitting and receiving said information over an ATM network;

a proxy signaling server in communication with said subscriber data processing system and said ATM edge device;

means in said subscriber data processing system, responsive to said subscriber, for sending a request to said proxy signaling sever to <u>login to said proxy server</u>, to receive service advertising information from said proxy signaling server due to said <u>login</u>, initiate a bandwidth-on-demand session <u>after said receive</u>, terminate an <u>said bandwidth-on-demand session</u>, and <u>logoff from said proxy server after said termination</u>; and

means in said proxy signaling server, responsive to said requestrequests, for wherein said initiating said bandwidth-on-demand session by creatingcreates one or more Switched Virtual Circuits (SVCs) between said subscriber data processing system and said content-provider data processing system.

## 17. (new) The method of claim 1, further comprising:

logging onto to a proxy signaling server via a subscriber of said subscriber data processing system; and

providing service advertising information to said subscriber from the proxy signaling server in response to a successful login,

Serial No. 10/672,771

Atty. Doc. No. 2003P04918US01

wherein initiating said bandwidth-on-demand session is in response to said providing of said service advertising information.

- 18. (new) The method of claim 17, further comprising updating a route table of said subscriber data processing system via the proxy signaling server in response to said creation of said one or more SVCs and in order to route traffic over the newly created said one or more SVCs...
- 19. (new) The method of claim 1, wherein said ending of said bandwidth-on-demand session is by said subscriber.
- 20. (new) The system of claim 10, wherein said login includes a message comprising a password and customer identifier.
- 21. (new) The system of claim 10, wherein a termination of said created one or more SVCs is initiated via said client-side application.
- 22. (new) The system of claim 21, wherein a logoff from said proxy signaling server via said client-side application occurs after said termination of one or more SVCs.